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2 **DYNAMIC SERVICE DISCOVERY**

3 **ABSTRACT OF THE INVENTION**

4 The invention provides methods, apparatus and systems that allow devices to enter and leave a
5 local domain often and still allow consumers of the service provided by the device to easily
6 detect its availability. To achieve this, an example embodiment locates a “service discovery
7 proxy” in the local domain. On receiving a service discovery request from a remote inquirer, the
8 proxy resolves the service request based on those services that are determined to be dynamically
9 available in the local domain at that time. The proxy resolves the incoming service request
10 within its local domain by using any method for local service discovery. The response to the
11 service discovery received from the local devices is customized by the service discovery proxy,
12 wherein the customization includes formatting, filtering, aggregating, and/or selecting particular
13 responses. The proxy then sends the customized response back to the remote inquirer.
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